

4 AC Motor Controller WM/DRM 220–230 V AC

animeo Solo

animeo IB+

animeo KNX

animeo LON

SOLUTIONS FOR COMMERCIAL BUILDINGS



Ref. 1860114



Ref. 1860116

Motor controller for roller shutters, screens, exterior Venetian blinds and windows.

To individually control four 230 V AC motors.

One full Din rail version is available for integration in electrical cabinet.

Installation advantages

- > The use of plug connectors enables time savings and less wiring errors.
- > Flexible installation options: on DIN rail or with screws.
- > Testing of running direction of the motors can be done with the motor controller itself before the ETS integration programming.

Functional advantages

- > Via local standard switches users can control the solar shading to the desired position and overwrite automatic operation.
- > Each motor output can be controlled individually using KNX or via individual switches.
- > The 8 inputs to connect local push-button switches can also be used to send orders via KNX to create – with ETS – individual groups of motors controlled by local switches.
- > The inputs can also manage switching and dimming via the KNX bus.
- > By plugging the KNX/RTS receiver (ref.1860191) into the motor controller at any time, the RTS range of user interfaces can be used.

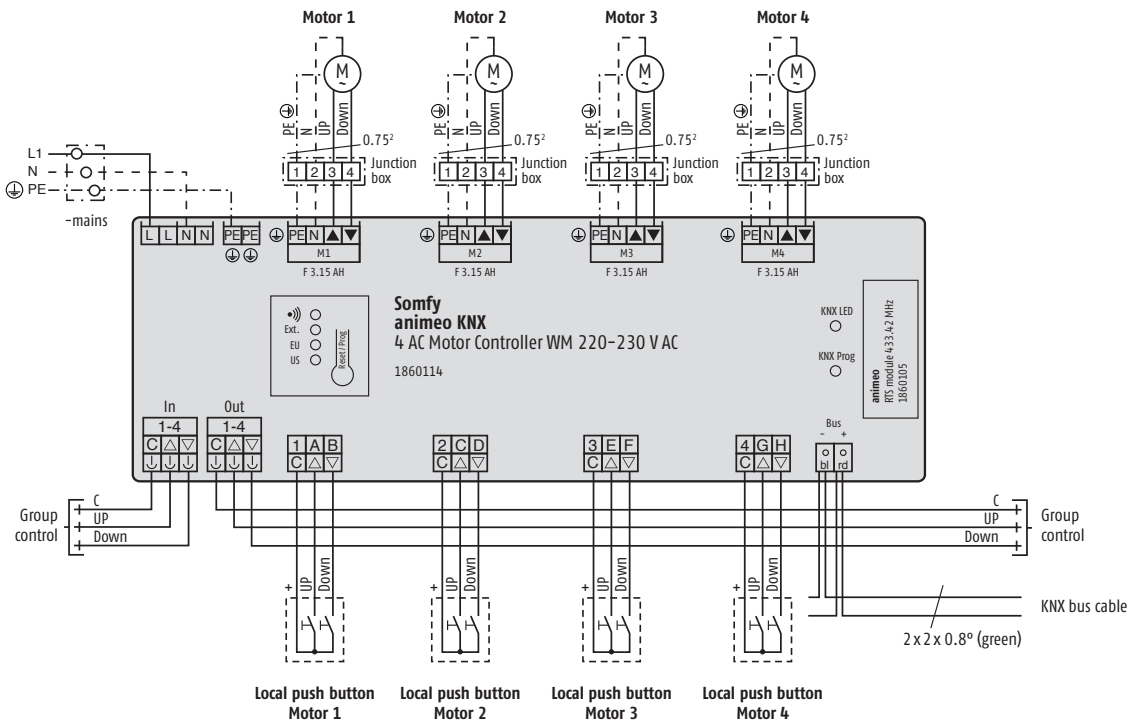
Wiring

Connection	Cables	Twisted pairs	Max. distance
Motors	Min.: 4 x 0.75 mm ² /18 AWG – Max.: 4 x 2.5 mm ² /13 AWG		
Switches	Min.: 3 x 0.28 mm ² /22 AWG Max.: 3 x 2.5 mm ² /13 AWG	Recommended	100 m
Group control	Min.: 3 x 0.28 mm ² /22 AWG Max.: 3 x 1.5 mm ² /15 AWG	Recommended	50 m
KNX bus	2 x 0.5 mm ² /20 AWG	Required, according KNX topology guidelines	
220 – 230 V AC	Min.: 3 x 1.5 mm ² /15 AWG Max.: 3 x 2.5 mm ² /13 AWG		

Classification

The Motor Controller is an electronically and manually-operated, independently-mounted control.

- Class A control function
- Type 1 action
- Pollution degree: 2
- Rated impulse voltage: 2.5 kV
- Temperature of the ball hardness test: 75 °C
- Type X attachment
- Method of attachment for non-detachable cords: screwless spring terminal
- EMC emission test: $U_{AC} = 230V DC$ $I_{AC} = 0.03 A$
(EN 55022 Class B emission)



CHARACTERISTICS

	WM Ref. 1860114	DRM Ref. 1860116
Supply voltage	220-230 V AC / 50/60 Hz	220-230 V AC / 50/60 Hz
Stand-by current (IEC 62301)	6 mA@230 V AC	6 mA@230 V AC
Stand-by power (IEC 62301)	< 0,5 W@230 V AC	< 0,5 W @ 230 V AC
Supply voltage from KNX bus	KNX-voltage 21 ... 32 V DC, SELV	KNX-voltage 21 ... 32 V DC, SELV
Rated current consumption KNX	As per KNX guideline; 10 mA	As per KNX guidelines, 10 mA
Max. motor current consumption	4 x 3.0 A, cos φ = 0.95	4 x 3.0 A, cos φ = 0.95
Supply voltage of group control input	SELV, 16 V DC =	SELV, 16 V DC =
Supply voltage of local push buttons	SELV, 16 V DC =	SELV, 16 V DC =
Fuse per output	4 x F 3.15 AH	4 x F 3.15 AH
Terminals	Spring connectors	Spring connectors
Terminal KNX	KNX bus terminal (black/red)	KNX bus terminal (black/red)
Running time per output (relay contact)	Max. 5 minutes	Max. 5 minutes
Operating temperature	- 5 °C to 45 °C	- 5 °C to 45 °C
Relative humidity	Max. 85 %	Max. 85 %
Material of housing	PC-ABS	PC-ABS
Housing dimensions (w x h x d)	180 x 255 x 61 mm	90 x 210 x 61 mm (12 HP)
Degree of protection	IP 20	IP 20
Protection class	I (looped through PE connection - depending on the installation)	I (looped through PE connection - depending on the installation)
Conformity	www.somfy.com/ce	www.somfy.com/ce